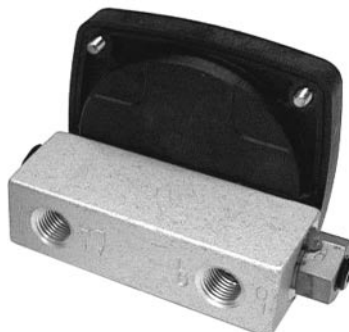


DIFFERENTIAL PRESSURE GAUGES

SERIES 20



- Simple, Rugged Piston Design
- Use for Filters, Strainers, Flow indication
- Cost effective Differential Pressure

Specifications:

Temperature Limitations: -40 °F (-40 °C)

to 200 °F (93 °C)

Max Working Pressure: 6,000 psi (5,000 psi for Monel)

Proof Pressure: 2x rated working pressure
or 10,000 psi, whichever is lower, at ambient

Accuracy: 3-2-3%

Sensing Element: Piston

0-5psid to 110psid

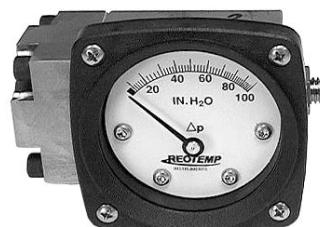
D20 — 25 — P — SS — B — B — 50P — TS

Dial Size	Dial Case	Wetted		Connections	Range	Options
		Body/Internals	Seals			
25 = 2.5"	P = Plastic	SS = 316SS/316SS	B = Buna N (std.)	B = 1/4" NPTF Back (std.)	See range table, p.17 e.g. 50P = 0/50 psid	See p.17 for all options & accessories
35 = 3.5"	A = Aluminum	AS = Aluminum/316SS	V = Viton	L = 1/4" NPTF end		
40 = 4.0"		MM = Monel/Monel ZM = Alum. Bronze/Monel	N = Neoprene T = Teflon	7 = 7/16" - 20 SAE/O-ring (back only)		

SERIES 40&42



Series 40



Series 42

- Convoluted Diaphragm Design
- Ideal for dissimilar fluids, wet gas
- Recommended for fluids with high solids content
- For use with Diaphragm Seals

Specifications:

Temperature Limitations: -40 °F (-40 °C)

to 200 °F (93 °C)

Max Working Pressure: 3,000 psi (1,500 psi for Brass)

Proof Pressure: 2x rated working pressure
or 6,000 psi, whichever is lower at ambient

Accuracy: 3-2-3% or 5% (10" H₂O or lower)

Sensing Element: Diaphragm

40 - 0-30psid to 100psid

42 - 0-20"H₂O to 690"H₂O (25psi)

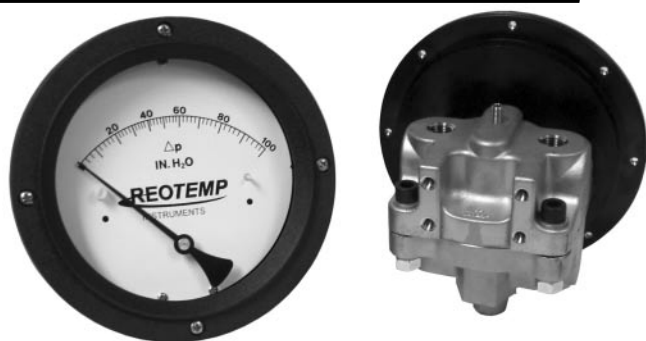
D — 40 — 25 — P — AS — B — B — 50P — TS

Dial Size	Dial Case	Wetted		Connections	Range	Options
		Body/Internals	Seals & Diaphragm			
25 = 2.5"	P = Plastic	AS = Aluminum/316SS	B = Buna N (std.)	B = 1/4" NPTF Back (std.)	See range table, p.17 e.g. 50P = 0/50 psid	See p.17 for all options & accessories
35 = 3.5"	A = Aluminum	BS = Brass/316SS	V = Viton (60" H ₂ O min.)	D = 1/4" NPTF Dual Top & Bottom		
45 = 4.5"		SS = 316SS/316SS	S = Silicone N = Neoprene (25psid max)			

*Other consult Factory

SERIES 30

DIFFERENTIAL PRESSURE GAUGES



0-5" H₂O to 400" H₂O (15 psid)

- Convoluted Diaphragm Design
- General Purpose Differential Pressure
- Works with vacuum or pressure
- Suitable for clean liquids/gases

Specifications:

Temperature Limitations: -40°F (-40°C) to 200°F (93°C)

Max Working Pressure: 500 psi (300 psi for polysulfone)

Proof Pressure: 2x rated working pressure

Accuracy: 3-2-3% (above 10" H₂O)

5% (0-5" H₂O to 9.9" H₂O)

Sensing Element: Diaphragm

D30 — **35** — **P** — **PS** — **B** — **B** — **50P** — **TS**

Wetted						
Dial Size	Dial Cases	Body/Internals	Seals & Diaphragm	Connections	Range	Options
35 = 3.5"	P = Plastic	PS = Polysulfone/316SS	B = Buna N (std.)	B = 1/4" NPTF Back (std.)	See range table, p.17 e.g. 50P = 0/50 psid	See p.17 for all options & accessories
45 = 4.5"	A = Aluminum	AS = Aluminum/316SS BS = Brass/316SS SS = 316SS/316SS HH = Hast C/Hast C	V = Viton S = Silicone E = Ethylene Propylene (100 INWC max)	T = 1/4" NPTF Top L = 1/4" NPTF bottom		

SERIES 05, 06, 09



05 - 0-10" H₂O to 80" H₂O
06 - 0-100" H₂O to 400" H₂O
09 - 0-15 psid to 6000 psid

- High Accuracy +/- 1% (F.S.)
- Diaphragm - Bellows type (05, 06)
- Bourdon Tube type (09)

Specifications:

Temperature Limitations: -40°F (-40°C) to 200°F (93°C)

Max Working Pressure: 1,500 psi (500 psi brass); up to 6,000 psi available

Proof Pressure: 2x rated static pressure or 10,000 psi, whichever is lower at ambient

Accuracy: 1% (std.), 0.5% (avail. 15 psi & up)

Sensing Element: 05 & 06 = Diaphragm/Bellows; 09 = Bourdon Tube

D — **05** — **45** — **P** — **A** — **B** — **D** — **50P** — **TS**

		Wetted				
Dial Size	Dial Material	Body/Internals	Seals	Connections	Range	Options
45 = 4.5"	P = Plastic	AB = Alum./ Copper Alloy	B = Buna N (std.)	D = 05 & 06 - 1/4" NPTF Dual, Top & Bottom (std.)	See range table, p.17 e.g. 50P = 0/50 psid	See p.17 for all options & accessories
60 = 6.0"		AS = Aluminum/316SS	V = Viton			
		CB = Carbon Stl./ Cu. Alloy	N =Neoprene	B = 09 - 1/4" NPTF Back (std.)		
		CS = Carbon Steel/316SS				
		SS = 316SS/316SS				

DIFFERENTIAL PRESSURE GAUGES

OPTIONS

Optional Switches

Specifications (for resistive loads):

Reed Switch
SPDT, 3W, 0.25 Amp @ 125 VAC/VDC
Switch adjustable range 10% - 90%
NEMA 4X enclosure

Available on models: 20, 30, 40, 42

SD1N4 = Single Switch

SD2N4 = Two (independent) Switches

Accessories

TS

Accessories

TS = SS Tags **G** = Glycerin Fill
OXY = Oxygen Cleaning **S** = Silicon Fill
PMK = Pipe Mounting kit **SGL** = Laminated Safety glass lens (std. is shatter-resistant acrylic)
WMK = Wall Mounting Kit
MP = Max Pointer (avail. on 09, 20, 30, 40, 42)

Diaphragm Seals*

Note:

Available only on the Series 40 & 42. Diaphragm Seals are not typically recommended for use with Differential Pressure gauges, and can affect gauge accuracy. However when required the 40 and 42 series will work using the following diaphragm size and material guide. The proper material and size can then be utilized with most styles of Diaphragm Seals.

Series 40: Size 5 Seal (Viton diaphragm,) or
Size 6 Seal (Teflon diaphragm,) or
Size 7 Seal (Metal diaphragm)
Series 42: Size 6 Seal (Teflon diaphragm)

For complete Diaphragm Seal Style and Part Number refer to pages 22 - 23 of this catalog.

Consult with factory for specific Diaphragm Seal solutions.

Ranges - Availability By Series

Differential Ranges Code	30	05	06	09	20	40	42
Low (INWC)							
05H 0 - 5	5% Y						
10H 0 - 10	Y	Y					
15H 0 - 25	Y	Y					
20H 0 - 20	Y	Y					Y
25H 0 - 25	Y	Y					Y
30H 0 - 30	Y	Y					Y
50H 0 - 50	Y	Y					Y
75H 0 - 75	Y	Y					Y
100H 0 - 100	Y		Y				Y
200H 0 - 200	Y		Y		Y		Y
300H 0 - 300	Y		Y		Y		Y
400H 0 - 400	Y		Y		Y		Y
Medium (psid)							
05P 0 - 5	Y		Y		Y		Y
10P 0 - 10	Y		Y		Y		Y
15P 0 - 15	Y		Y	Y	Y		Y
20P 0 - 20				Y	Y		Y
25P 0 - 25				Y	Y		Y
30P 0 - 30				Y	Y	Y	
50P 0 - 50				Y	Y	Y	
75P 0 - 75				Y	Y	Y	
100P 0 - 100				Y	Y	Y	
High (psid)							
300P 0 - 300				Y			
600P 0 - 600				Y			
10CP 0 - 1000				Y			
15CP 0 - 1500				Y			

Other Scales Available:

• Metric Scales

-Bar
-mbar
-mm H₂O
-kg/cm²
-KPa
-etc.

• Bi-directional scales:

available for Series 05, 06, 09, 20
(with zero at center of dial)
& on application.

• Square Root Scales

• Flow Scales

(GPM, SCFM, etc.)

• Other Custom Scales

logos available-
consult factory